

SECTION I

PRODUCT

CHEMICAL/ SYNONYMS

CHEMICAL

FAMILY

SHELL CODE

pm 536 MATERIAL SAFETY DATA

MSDS NUMBER ▶ 5.060-3

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97002 (1-81)

▶ Ketone

31135

Methyl Isobutyl Ketone

Phone: (9/3) 241-4819

NAME

24 HOUR EMERGENCY ASSISTANCE 713-473-9461 SHELL C HEALTH CHEMTREC 800-424-9300 2 MIBK, 4-methyl-2-pentanone HAZARD RATING FIRE 3 REACTIVITY 0 EXTREME HIGH MODERATE. 3 4 2 C.A.S. NUMBER > 108-10-1

COMPOSITION	%	TOXICITY DATA
ethyl Isobutyl Ketone	100	Oral LDso (rat) = 2.08g/kg
·		Dermal LDso (rabbit) = >20ml/kg
		Inhalation LCso (rat) = 2,000-6,000ppm/4 hours

SECTION III

HEALTH INFORMATION

Liquid is irritating to the eyes.

Prolonged or repeated contact of liquid with skin can cause dryness and irritation.

Breathing high vapor concentrations or prolonged exposure to vapors can cause irritation of the eyes, nose and throat and may cause headache, dizziness, nausea and unconsciousness.

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL and ACGIH TLV = 100ppm or 410mg/m3 TWA (8-hour workday) ACGIH TLV = 125ppm or 510 mg/m3 STEL

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Shell

EMERGENCY AND FIRST AID PROCEDURES SECTION V

Remove victim to fresh air. Give artificial respiration if INHALATION:

not breathing. Get medical attention.

EYE CONTACT:

Flush eyes immediately with large amounts of water for at

least 15 minutes. Get medical attention.

SKIN CONTACT:

Wash with soap and water. Remove contaminated clothing and

do not reuse until they have been laundered.

INGESTION:

Give large amounts of water, then induce vomiting by

touching back of throat with finger. Get medical

attention.

SECTION V		PHYSICAL DATA	
BOILING POINT	241	MELTING POINT -118	VAPOR PRESSURE 15@68°F (mmHg)
SPECIFIC GRAVITY (H ₂ 0=1)	0.81@60/60°F	% VOLATILE BY 100	VAPOR DENSITY ▶ 3.5 (AIR=1)
SOLUBILITY IN WATER	Moderate	EVAPORATION RATE 1.6	

APPEARANCE AND ODOI

Colorless, mobile liquid. Pleasant odor.

SECTION VII FIRE	AND EXPLOSION HAZARDS		
FLASH POINT AND METHOD USED	FLAMMABLE LIMITS/% VOLUME IN AIR	LOWER	UPPER
FO'F (TCC)		1.4	7.5
EXTINGUISHING MEDIA			

Dry chemical, "alcohol" foam, CO2, water spray or fog.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

Do not enter confined fire space without proper protective equipment including NIOSH approved self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Treat as a flammable liquid.

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MATERIAL SAFETY DATA SHEET

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SECTION VIII REACTIVITY
STABILITY UNSTABLE X STABLE HAZARDOUS POLYMERIZATION MAY OCCUR X WILL NOT OCCUR
CONDITIONS AND MATERIALS TO AVOID
Keep away from heat, sparks and open flames. No smoking. Reacts with strong oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS
Carbon monoxide can form upon incomplete combustion.
SECTION IX ESPIRATORY PROTECTION
Ise NIOSH approved respiratory protection equipment as required to prevent overexposure.
ROTECTIVE CLOTHING
Ise goggles if material can be sprayed or splashed into the eyes. Wear impervious gloves and appropriate protective clothing to prevent skin contact.
DDITIONAL PROTECTIVE MEASURES
se in well ventilated areas.

SECTION X

ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

Eliminate all sources of ignition immediately and evacuate the area. Be prepared for fire.

Wear appropriate protective clothing and respiratory protection equipment when entering the spill area. Shut off leak if it can be done safely. Ventilate the area. Dike and pump off large spills into salvage or storage containers. 'Take up residue or small spills with absorbent material such as clay or vermiculite. Scoop up all contaminated soil and dispose of in same manner as the product. See Section XIII.

WASTE DISPOSAL

Handle waste material in accordance with RCRA requirements. See Section XIII.

ENVIRONMENTAL HAZARDS

Do not allow product to enter storm or sanitary sewers, lakes, rivers, streams or public water supplies. Notify local authorities if this happens or is threatened.

SECTION XI

97005 (1-81)

SPE	CIAL	PRECAUTIONS

MIBK is a volatile, flammable liquid.

Keep away from any source of ignition such as heat, sparks and open flame. Ground all containers when pouring or transferring liquid.

Store in tightly closed containers in a cool, well ventilated area.

Do not eat or smoke in areas where this product is handled processed or stored. Wash up with soap and water before eating, smoking, or using toilet facilities.

SECTION XII	X FLAMMABLE LIQUID	COMBUSTIBLE LIQUID		NON-FLAMMABLE
DEPARTMENT OF TRANSPORTATION	FI AMMARI E SOUD	POISON, CLASS A	CORROSIVE MATERIAL	ONOT HAZARDOUS BY D.O.T. REGULATIONS
CLASSIFICATION	FLAMMABLE GAS	POISON,CLASS B	IRRITATING MATERIAL	OTHER-Specify below
D.O.T. PROPER SHIPP Flammable L	iguid, N.O.S.			
D.O.T. I.D.		Guide Sheet 26.		
SECTION XIII EPA,FDA,OSHA,USDA,O		THER REGULATORY CO	NTROLS	

EPA - Resource Conservation and Recovery Act (RCRA)

Methyl Isobutyl Ketone has been designated by the EPA (RCRA 40 CFR 261.33) as a hazardous waste if it is spilled, discarded or intended to be discarded as is. The EPA hazardous waste number is U161.

The information contained herein is based on data considered accurate. However,no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.



SHELL OIL COMPANY PRODUCT SAFETY AND COMPLIANCE OIL AND CHEMICAL PRODUCTS P.O. BOX 4320 HOUSTON, TEXAS 77210

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DATE	PF	EP	A	RED	

March 09, 1981